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	Docket Number (Optional)								
PRE-APPEAL BRIEF REQUEST	SCS-124-1111								
,	Application Number	Filed							
	10/500 055	March 24, 2005							
	10/529,055 First Named Inventor	VIAICI124, 2005							
	HARRIS								
	Art Unit	Examiner							
		T, Brainard							
	3662								
Applicant requests review of the final rejection in the above-identified application. No amendments are being filed with this request.									
This request is being filed with a notice of appeal.  The review is requested for the reason(s) stated on the attached sheet(s).  Note: No more than five (5) pages may be provided.									
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Assignee of record of the entire interest. See C.F.R. § 3.71. Statement under 37 C.F.R. § 3.7 is enclosed. (Form PTO/SB/96)	73(b)	Stanley C. Spooner							
	Т	yped or printed name							
Attorney or agent of record 27,393		700 040 4000							
(Reg. No.)		703-816-4028							
	Requ	ester's telephone number							
Attorney or agent acting under 37CFR 1.34.		August 20, 2007							
Registration number if acting under 37 C.F.R. § 1,34	· · · · · · · · · · · · · · · · · · ·	Date							
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.*   Total of 1 form/s are submitted.									

This collection of information is required by 35 U.S.C. 132. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Malt Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTo-9199 and selection option 2.

### STATEMENT OF ARGUMENTS IN SUPPORT OF PRE-APPEAL BRIEF REQUEST FOR REVIEW

The following listing of clear errors in the Examiner's rejection and his failure to identify essential elements necessary for a prima facie basis of rejection is responsive to the Final Official Action mailed May 23, 2007.

### Error #1. The Examiner appears to ignore the requirements that each independent claim is a "bistatic" laser radar device

Where the preamble of a claim is "necessary to give life, meaning and vitality' to the claim, then the claim preamble should be construed as if in the balance of the claim." MPEP §2111.02 quoting Pitney Bowes v. Hewlett-Packhard Co., 51 USPQ2d 1161, 1165-66 (Fed. Cir. 1999).

The preamble of each of Applicants' independent claims 1, 18 and 21 defines the claimed device as being a "bistatic" laser radar device. The term 'bistatic" is defined in Applicants' specification, page 2, lines 3 and 4, as "having separate transmit and receive optics." Thus, the cited prior art must disclose bistatic devices having separate transmit and receive optics in order to be pertinent to the claimed invention.

While transmit and receive optics are shown in the Ehbets reference, they are not shown in the Zincone reference. In fact, the Zincone reference, in teaching a single "laser airspeed unit 11," (a combined transmit and receive unit) would lead one of ordinary skill in the art away from a bistatic laser radar device and certainly does not address the problem solved by the claimed bistatic invention.

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# Exror #2. The Examiner fails to demonstrate that the cited prior art teaches a "variable focus transmit beam"

The Zincone reference discloses a movable lens 26 which has a variable focus effect but teaches that this is in combination with a monostatic system, i.e., a single transmit/receive optical channel. Ehbets teaches only a fixed and unfocused transmit beam (which is not focused at all, but rather, is emitted through "a collimator objective lens 12 in the direction of the optical axis 13 as a parallel beam . . . ." (Column 5, lines 4-7)). In fact, The Examiner admits that "Ehbet does not teach a variable focus transmit beam." (Final Rejection, page 2). As is well known to those skilled in the optical art, a parallel beam is not focused and a collimator lens provides an unfocused parallel beam of light.

Therefore, Zincone is not analogous prior art and Ehbets, not only fails to teach a variable focus transmit beam, leads one of ordinary skill in the art away from the claimed subject matter by instead teaching a non-variable, non-focused, fixed parallel beam of light.

# Error #3. The prior art fails to disclose a "variable focus receive beam"

Zincone would appear to teach a variable focus lens on a monostatic laser system in which there is only a single transmit/receive optical path, thereby teaching away from application to a bistatic laser system.

Ehbets fails to teach the claimed "receive channel for forming a variable focus receive beam." While the position of the Ehbets receive sensor is moved <u>transversely</u> to the optical axis, there is no movement along the optical axis which could variably focus the received beam.

Therefore, Zincone is non-analogous monostatic art and Ehbets, in teaching a fixed focus optical path in a bistatic device, teaches away from the claimed variable focus receive channel.

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Error #4. No prior art reference teaches the claimed interrelationship that "all points of focus of the transmit beam and all points of focus of the receive beam fall on a common axis within the operable distance range of the device"

All of applicants' independent claims require that the points of focus of both the transmit and receive beams fall "on a common axis." Zincone, which at best teaches a non-analogous monostatic laser system, utilizes a single transmit and receive optical system and therefore all points of focus may be coincident. However, because Zincone relate to a monostatic system rather than Applicants' claimed bistatic system, it does not provide the benefits of a bistatic laser radar or even suggest the problems of a bistatic radar which are solved by the present invention.

Ehbets, in teaching a non-focused transmit beam (i.e., a fixed and unfocused collimated beam) and a fixed focus receive channel, cannot meet the requirement that all points of focus of the transmit beam and receive beam fall on a "common axis" Clearly no prior art suggests a bistatic system in which the points of focus fall on a "common axis."

### Error #5. The Examiner fails to appreciate that neither Ehbets nor Zincone teach the claimed subject matter

Even if Ehbets and Zincone were combined, the Examiner would have to pick and chose elements from the Ehbets and Zincone references and then combine them as taught only by applicant's claims.

Assuming one of ordinary skill in the art would utilize the Ehbets bistatic arrangement one would disregard the inconsistent Zincone monostatic system. However, that person would have to use the Zincone variable focus transmit channel instead of the fixed and unfocused

transmit channel as taught in Ehbets. Additionally, the person of ordinary skill would have to pick the variable focus receive channel from Zincone's monostatic system and apply this to the Ehbets bistatic system. The person of ordinary skill would then have to realize that a benefit in having the focus of the two separate transmit and receive channels fall "on a common axis" (as in the non-analogous Zincone system) and then apply that to the fixed and unfocused Ehbet transmit system and the fixed focus receive system.

As can be seen, one would have to pick and choose features of the Ehbets and Zincone references and then combine them only in the manner suggested by Applicants' independent claims 1, 18 and 21. The Examiner has identified no suggestion for such combination anywhere in the Ehbets and Zincone references.

The Examiner has failed to provide any "reason" or "motivation" for picking and choosing elements from the non-analogous monostatic Zincone reference and bistatic Ehbets reference and has failed to provide any motivation for combining these elements in the manner of Applicants' claims. Accordingly, there is simply no basis for independent claims 1, 18 and 21 being considered obvious in view of the Ehbets/Zincone combination and any further rejection thereunder is respectfully traversed.

### Error #6. The Examiner fails to appreciate that both Ehbets and Zincone would lead one of ordinary skill in the art away from Applicants' combination claims

As noted above, the Ehbets reference teaches the use of a fixed and non-focused transmit beam which requires one of ordinary skill to disregard this analogous art teaching. The Examiner provides no reason why one of ordinary skill in the art would ignore this pertinent art and instead substitute a variable focus transmit system from the non-analogous Zincone

reference which is a monostatic laser radar device. The Examiner provides no reason or rationale why one of ordinary skill in the art would utilize a variable focus receive channel as taught by Zincone's monostatic laser device and instead substitute this feature for the fixed focus receive channel in the analogous Ehbets reference.

Moreover, the Examiner completely avoids the fact that in a monostatic laser radar device such as Zincone, all points of focus are on "a common axis" and that, as discussed in Applicants' specification, it is the requirement of bistatic laser radar systems that requires the variable focus. Because both Ehbets and Zincone would clearly lead one of ordinary skill in the art away from Applicants' combination of elements, this is clear evidence of non-obviousness under 35 USC §103.

In view of the above, there is no reason to combine Ehbets and Zincone and indeed each of these references would teach away from the combination thereof. Each of the rejections under 35 USC §103 are in view of a combination of Ehbets and Zincone and therefore each ground of rejection is respectfully traversed for all of the above reasons.

#### **SUMMARY**

As discussed in detail above, the Zincone reference teaches a monostatic device nonanalogous to the claimed bistatic device. Ehbet teaches a bistatic device with a fixed unfocussed transmit channel and a fixed focus receive channel and teaches away from variable focus in transmit or receive channels. Both references teach away from the claimed invention.

As a result of the above, there is simply no support for the rejection of Applicants' independent claims 1, 18 and 21 or claims dependent thereon under 35 USC §103. Applicants respectfully request that the Pre-Appeal Panel find that the application is allowed on the existing claims and prosecution on the merits should be closed.